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ABSTRACT

This issue of "Social Sciences in Forestry" provides an annotated bibliographic listing of 592 current references arranged according to four major areas of forestry: (1) applications to forestry at large (containing citings on resources, history, legislation, policy, planning, appraisal and valuation, investment and finance, taxation, subsidization, agroforestry, economics, education, research, technology, and environmental concerns); (2) applications to forest management (with references on multiple use management, ownership of public and private lands, labor, and protection); (3) production of forest goods and services (addressing areas such as outdoor recreation, wilderness and range management, urban forestry, watershed management, fish and wildlife, and wood production); and (4) applications to forest industries (focusing on wood-using industries and other forest industries, marketing and trade, and transportation). Each major area is further subdivided into a total of 43 subheadings. An author index is the only index provided. (TW)

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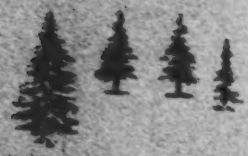

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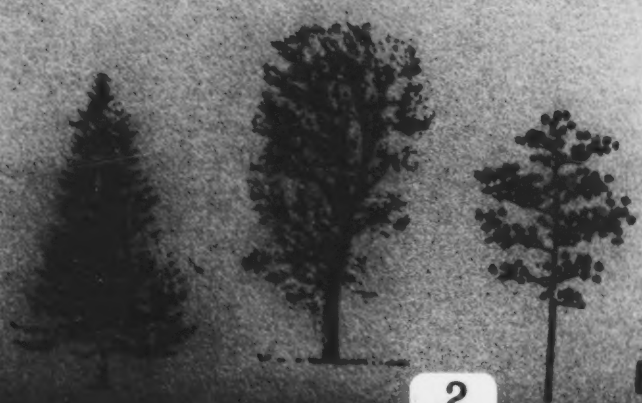

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SOCIAL SCIENCES IN FORESTRY
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PREFACE

References submitted by foreign coorperators are acknowledged by the addition of the cooperator's initials directly following the annotation. We welcome contributions of either references to publications or the publications themselves. We would also welcome additional foreign cooperators, particularly from countries not represented on the title page of this issue. Anyone interested in serving as a cooperator should write to us at the University of Minnesota Forestry Library, 1530 North Cleveland Avenue, St. Paul, MN 55108.

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Jean Albrecht
Patricia Rodkewich

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SOCIAL SCIENCES APPLIED TO FORESTRY AT LARGE

GENERAL PUBLICATIONS

1 Canadian Forest Inventory Committee, 1986. **Workshop proceedings: Forest resource data bases, 1996, Fredericton, New Brunswick, June 4, 1986.** Chalk River, Ontario, Petawawa National Forestry Institute. 43pp.:46pp.

In English and French. The objective of the workshop was to consider what databases will be required by users of forest resource information systems in 1996. Individual papers are not indexed.

2 Hayden, D., 1986. **Newfoundland's forests and forest industry: Statistical information, 1985 edition.** Newfoundland Forestry Centre, Information Report N-X-233. 47pp.

Includes statistics relating to the "geographical details of the forest resource, forest inventory, forest management, commodity production and trade, principal industry groups, federal-provincial forestry agreements, comparative selected economic indicators, and other pertinent aspects of forestry in Newfoundland." (p.i)

3 Instituto Forestal, Division Estudios Economicos, 1986. **[Forestry statistics 1985.]** Santiago, Chile, Instituto Forestal, Serie Informatica no.34. 98pp.

In Spanish. Includes statistics on forest resources, production, and consumption.

4 Levack, H., editor, 1986. **Forestry handbook.** Wellington North, New Zealand Institute of Foresters (Inc.) 143pp.

This is a revision of the 1977 edition. It is aimed primarily at New Zealanders active in forest management. Includes articles by 75 different authors, some of which have been indexed separately in this issue. (EMB)

5 Lindberg, R.D. and Hovind, H.J., 1986. **Wisconsin forests: an assessment 1985.** Wisconsin Dept. of Natural Resources, Bureau of Forestry, Publ-FR-041 86. 86pp.

Gives an overview of the forest resource in 1985, including public and private ownership, timber supply, forest related programs such as protection, nurseries, utilization and marketing, and concludes with sections on "social and economic assessment" and "planning and plan administration".

6 Lohmander, P., editor, 1986. **Research on economic planning in natural resource sectors: Proceedings of a conference, Umea, Sweden, 1985.** Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Rapport 68. Various pagings.

Includes 8 papers which are individually indexed in this issue. The papers are in two sections: Topics in management, planning and valuation; and Forest policy at the macro level.

7 Manz, P., 1986. **Forestry economics in the steady state: the contribution of J.H. vonThunen.** History of Political Economy

18:281-290.

8 Mroz, G.D. and Reed, D.D., compilers, 1986. **Proceedings: A Conference on the Northern Hardwood Resource: Management and Potential, August 18-20, 1986.** Houghton, Mich., Michigan Technological University. 434pp.
Sponsored by U.S.Forest Service, Canadian Forest Service, Michigan Department of Natural Resources, Society of American Foresters, and Michigan Technological University. Topics covered include: the resource, silviculture, management and economics, utilization, and marketing.

9 White, D.E., 1987. **New Zealand forestry.** Journal of Forestry 85(3):41-43.

10 Young, C., 1985. **The forests of British Columbia.** North Vancouver, B.C., Whitecap Books. 192pp.

FOREST RESOURCES: REGIONAL, NATIONAL, INTERNATIONAL

11 Alaska Dept. of Commerce and Economic Development, 1985. **Alaska's commercial forest resource.** Alaska Dept. of Commerce and Economic Development. [28]pp.
"This report provides an introduction to Alaska's forest resource and timber industry. Its purpose is to provide potential purchasers of Alaskan wood products with information on how much timber volume is available, where it is located, who owns it, and who to contact to get more information." (p.1)

12 Beck, J.A., 1986. **Alberta's forests.** University of Alberta, Agriculture and Forestry Bulletin 9(3):8-9.

13 Birch, T.W. and Spencer, J.S., Jr., 1986. **Hardwoods in the North.** In: Mroz, G.D. and Reed, D.D., comp. Proceedings: A Conference on the Northern Hardwood Resource. pp.1-11.

14 Birdsey, R.A., Weaver, P.L., and Nicholls, C.F., 1986. **The forest resources of St. Vincent, West Indies.** U.S. Forest Service, Research Paper SO-229. 25pp.
Presents the principal findings of a 1984 forest inventory of St. Vincent. Data covers plantations and natural forests.

15 California Assembly Subcommittee on Timber, 1986. **An assessment on the future of the forest resource in California.** Sacramento, Joint Publications Office. 239pp.
An informational hearing held at the State Capitol, Sacramento, May 13, 1986.

16 Canadian Forestry Service, Economics Branch, 1986. **Selected forestry statistics Canada, 1985.** Canadian Forestry Service, Economics Branch, Information Report E-X-37. 161pp.

Contains a series of tables on Canadian forest resources and related management activities, commodity production, shipments and trade, employment statistics by industry sector, selling price indexes, financial statistics, and economic indicators.

17 Cost, N.D., 1986. **Multiresource inventories: Woody biomass in North Carolina.** U.S. Forest Service, Research Paper SE-261. 36pp.

"The primary objective of this study is to present the distribution and quantity of woody biomass on forest lands and nonforest areas." (p.1)

18 Frieswyk, T.S. and Malley, A.M., 1986. **Biomass statistics for Vermont - 1983.** U.S. Forest Service, Resource Bulletin NE-91. 105pp.

19 Gedney, D.R., Bassett, P.M., and Mei, M.A., 1986. **Timber resource statistics for non-federal forest land in northwest Oregon.** U.S. Forest Service,Resource Bulletin PNW-RB-140. 26pp.

Summarizes a 1986 timber resource inventory of the non-federal forest land in 10 counties in northwest Oregon. Includes tables of forest area, timber volume, growth, mortality, and harvest.

20 Gedney, D.R., Bassett, P.M., and Mei, M.A., 1986. **Timber resource statistics for non-federal forest land in southwest Oregon.** U.S. Forest Service, Resource Bulletin PNW-138. 26pp.

This report summarizes a 1985 timber resource inventory of the non-federal forest land in Coos, Curry, Douglas, Jackson, and Josephine counties in southwest Oregon.

21 Gillis, M. and Lowe, J., 1986. **Canada's hardwood resources distribution and characteristics.** In: Mroz, G.D., and Reed, D.D., comp. Proceedings: A Conference on the Northern Hardwood Resource. pp.12-34.

22 Mattila, E., 1986. **[The forest resources of Finnish Lapland by sub-areas. The 7th National Forest Inventory in 1978 and 1982-84.]** Folia Forestalia 661. 77pp.

In Finnish with English summary.

23 McWilliams, W.H. and Bertelson, D.F., 1986. **Forest statistics for southeast Texas counties - 1986.** U.S. Forest Service, Resource Bulletin SO-114. 29pp.

24 Reijneveld, A., 1983. **A comparison of various estimates of reafforestation areas in the tropics.** Wageningen, Stichting voor Nederlandse Bosbouw Ontwikkelingssamenwerking, BOS Document 1. 55pp.

A comparison of various assessments of reafforestation areas of the tropics conducted over the past 30 years, among them the FAO World Forest Inventory, 1947, 1953, 1958, and 1963.

25 Rosson, J.F., Jr. and Thomas, C.E., 1986. **The woody biomass**

resource of Alabama. U.S. Forest Service, Research Paper SO-228. 31pp.
"Presents findings and analysis of woody biomass based on the fifth forest survey of Alabama (1982)." (abstract)

26 U.S. Forest Service, 1987. **Land areas of the National Forest System as of September 30, 1986.** U.S. Forest Service, FS-383. 87pp.

27 Whipple, J., 1985. **Past, present, future of the oak resource.** In: Johnson, J.E., ed. Challenges in oak management and utilization. pp.57-64.

28 Wishart, J., 1985. **Southern hardwood resource opportunities.** In: Symposium on Southeastern Hardwoods, 3rd, 1985. Proceedings. U.S. Forest Service, Southern Region. pp.3-13.

29 World Resources Institute and Int. Inst. for Env. and Dev., 1986. **Forests and rangelands.** In: World resources 1986. New York, Basic Books. pp.61-83.
A world resource review.

HISTORY

30 Beals, H.K., Cline, S., and Koler, J.M., 1986. **On the mountain's brink: A Forest Service history of the 1980 Mount St. Helens volcanic emergency.** U.S. Forest Service, Gifford Pinchot National Forest. 82pp.
Undated; probable date 1986.

31 Clary, D.A., 1986. **Timber and the Forest Service.** Lawrence, University Press of Kansas. 252pp.
A history of U.S. Forest Service timber management.

32 Clary, D.A., 1987. **What price sustained yield? The Forest Service, community stability, and timber monopoly under the 1944 Sustained-Yield Act.** Journal of Forest History 31(1):4-18.

33 Clepper, H., 1986. **Pennsylvania Forestry Association: 100 years and growing.** American Forests 92(11&12):24-25, 38-39.
"The Pennsylvania Forestry Association, the nation's oldest state forestry group in continuous operation, celebrated its centennial this year."(p.25)

34 Doggett, C.A., 1987. **The Moravian foresters.** Journal of Forest History 31(1):19-24.
The Moravians were practicing forestry in North Carolina in the 18th century.

35 Ferber, A.E., and Read, R.A., 1986. **The Forestry Committee of the Great Plains Agricultural Council 1949-1982.** Great Plains Agricultural Council Publication no. 118. 44pp.

A historical account of the committee.

36 Gillis, R.P. and Roach, T.R., 1986. **The American influence on conservation in Canada:1899-1911.** Journal of Forest History 30:160-174.

37 Otis, A.T., Honey, W.D., Hogg, T.C., and Lakin, K.K., 1986. **The Forest Service and the Civilian Conservation Corps: 1933-42.** U.S. Forest Service, FS-395. 219pp.
The authors' aim is to "illustrate the many dimensions of USDA Forest Service and CCC involvements." (p.iii)

38 Pisani, D.J., 1985. **Forests and conservation, 1865-1890.** Journal of American History 72:340-359.
"This essay examines the persistent fear of timber famine after the Civil War and basic assumptions regarding the value of woodlands." (p.341)

39 Ponder, S., 1987. **Gifford Pinchot, press agent for forestry.** Journal of Forest History 31(1):26-35.

40 Purey-Cust, J., 1986. **A condensed history of forestry in New Zealand.** In: Levack, H., ed. Forestry handbook. pp.27-28.

41 Tainter, F.H. and Cool, B.M., 1986. **This was forestry in America: The Biltmore Forest School 1898-1913.** Clemson, S.C., Clemson University, Dept. of Forestry. 50pp.
Undated; probable date 1986.

42 Thirgood, J.V., 1986. **The Barbary forests and forest lands, environmental destruction and the viscissitudes of history.** Journal of World Forest Resource Management 2:137-184.
This paper describes the natural vegetative cover, land use, and the history of human influence on the forests of North West Africa from the 10th century B.C. to the present.

43 Tsvetkov, M.A., 1986. **The geography of domestic timber markets in European Russia in the second half of the 19th and early 20th century.** Soviet Geography 27:115-131.

44 Vandersluis, C., 1986. **Once covered with pine: A study of Bemidji and environs at the time the timber was removed.** Minneota, MN, Country Candy. 70pp.
Includes sections on: "The French and Indians in Northcentral Minnesota," "Early history of Lake Bemidji", and an "Overview of logging activity around Bemidji."

45 Williston, H.L., 1986. **A statistical history of tree planting in the South 1925-1985.** U.S. Forest Service, Southern Region State and Private Forestry, Miscellaneous Report SA-MR-8, revised, 1986. 23pp.
Includes statistics published each year by the Forest Service and the Agricultural Stabilization and Conservation Service. Acres of forest planting and seeding are given for Alabama, Arkansas, Florida, Georgia, Kentucky, Louisiana,

Mississippi, North Carolina, Oklahoma, South Carolina, Tennessee, Texas, and Virginia.

LEGISLATION

46 Kreutzwiser, R.D. and Crichton, L.M., 1987. **An evaluation of the United States experience in controlling forest practices on private lands.** Forestry Chronicle 63:43-47.
"The forest practice legislation of 14 states is examined critically to provide a basis for suggesting elements of a forest practice act for Ontario." (p.43)

47 Moore, G., 1986. **The impact of non-forestry laws on forestry.** In: Schmithusen, F., ed. Forestry legislation. pp.88-101.

48 Schmithusen, F., editor, 1986. **Forestry legislation: Report of the IUFRO Working Party S4.06-04.** Zurich, Fachbereich Forstokonomie und Forstpolitik, Forstwissenschaftliche Beitrage no.4. 175pp.
Selected papers are indexed in this issue.

POLICY

49 Boyce, S.G., 1983. **Examining forestry policies with system dynamics methods.** Dynamica 9:(2)54-59.

50 Fortmann, L., 1987. **People and processes in forest protest.** American Forests 93(3-4):12-13, 56-57.
Examines the stereotypes of protesters of timber harvest activities.

51 Indonesia Department of Forestry and Int. Inst. for Environ. and Devel., 1985. **A review of policies affecting the sustainable development of forest lands in Indonesia.** Jakarta, Government of Indonesia and IIED. 4 vols. + executive summary.
Cover title: Forest policies in Indonesia: The sustainable development of forest lands. This review is concerned with the development, sustainable use and conservation of the forest lands of Indonesia.

52 record deleted

53 Lunnan, A., 1986. **Outline of a model for studying the development of forest policy in Norway.** In: Schmithusen, F., ed. Forestry legislation. pp.79-87.

54 Piddington, K., 1986. **Balancing conservation values and the needs of society - the tasks for the new institutions.** New Zealand Forestry 31(3):24-28.

The author attempts to "place the task of the new Department of Conservation in the wider context of changes affecting the New Zealand public service." (p.24)

55 Procter, R., 1986. **A rationale for current government policy towards forestry.** New Zealand Forestry 31(3):29-32.
The author works for the New Zealand Treasury.

56 Romm, J., 1986. **Forest policy and development policy.** Journal of World Forest Resource Management 2:85-103.
"The paper attempts to establish that, by any standard of effectiveness within a socially useful time horizon, the conceptual integration of forest policy within the broader realm of national policy and planning is a fertile and significant field for development." (p.87)

PLANNING

57 Allen, G.M., and Gould, E.M., Jr., 1986. **Complexity, wickedness, and public forests.** Journal of Forestry 84(4):20-23.

58 Bailey, R.G., coord. 1986. **Lessons from using FORPLAN: Proceedings of a Planning and Implementation Workshop, Denver, 1986.** Fort Collins, U.S. Forest Service. Land Management Planning Systems Section. 268pp.
Selected papers are indexed in this issue.

59 Brenner, R. and Meunier, J., 1986. **Decision-making and forest plan implementation on the Ottawa.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.153-161.
Forest planning on the Ottawa National Forest in Michigan.

60 British Columbia Ministry of Forests, 1985. **Five-year forest and range resource program 1985-1990.** [Victoria] British Columbia Ministry of Forests. 20pp.
"Submitted to the Legislative Assembly in accordance with Section 9 of the Ministry of Forests Act."

61 British Columbia Ministry of Forests, 1983. **Forest planning framework.** Victoria, British Columbia Ministry of Forests. 36pp.
Provides a guide to the preparation of forest plans in British Columbia.

62 Delfs, M., editor, 1986. **Proceedings of the Timber Management Resource Planning and Inventory Workshop, Atlanta, 1985.** U.S. Forest Service, Timber Management Staff. 167pp.
The subject of the Workshop was forest plan implementation. Selected papers are indexed in this issue.

63 Field, D.B., 1987. **Applications of statistical decision theory**

to the planning and control of forestry operations. In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:77-92.

"This paper offers a brief description of statistical decision theory, a review of the literature on applications of the methodology in forestry ... and some preliminary results of recent research that focuses on elements of risk in forestry financial analysis." (p.78)

64 Fox, M.F. and Macenko, S.L., 1985. **The agriculture-forest interface: an overview of land use change.** Environment, Canada, Land Directorate, Working Paper no.38. 132pp.

65 Gaspersic, F., 1985. **[Creativity in forest management planning.]** Zbornik Gozdarstva in Lesarstva, Ljubljana 26:31-43.
In Serbo-Croatian with English summary.

66 Gaspersic, F., 1985. **[The ways of transformation and modernization of forest management planning.]** Zbornik Gozdarstva in Lesarstva, Ljubljana 26:45-62.
In Serbo-Croation with English summary. "The paper presents the analysis of the present state in the field of forest management planning methods." (p.45)

67 Gast, B., 1986. **FORPLAN Version 2 and forest plan implementation.** In: Delfs, M., editor. Proceedings of the Timber Management Resource Planning and Inventory Workshop, 1985. pp.111-116.

68 Gast, B., 1986. **Land Management Planning's role in information management.** In: Delfs, M., editor. Proceedings of the Timber Management Resource Planning and Inventory Workshop, 1985. pp.27-31.

69 Haught, A., 1986. **RPA-the 1985 program, preparation for the 1989 assessment and 1990 program.** In: Delfs, M., editor. Proceedings of the Timber Management Resource Planning and Inventory Workshop, 1985. pp.36-40.

70 Hickman, C.A., 1987. **Preserving rural lands.** Journal of Forestry 85(3):31-35.
"To curb excessive rural-land conversions, a number of state, county, and municipal governments are intervening in local real estate markets. Most of these initiatives encourage retention of prime farmlands, but forests and other open-space lands are often included." (p.31)

71 Hof, J.G., Joyce, L.A., and Pickens, J.B., 1986. **The use of forest planning information in national (RPA) assessments.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.234-242.

72 Iverson, D.C., 1986. **Later development of FORPLAN: FORPLAN Version 2.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.23-32.

73 Jones, D.B., 1986. **Early development of FORPLAN.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.11-22.

74 Jones, G., 1986. **Forest plan implementation on the San Juan National Forest.** In: Delfs, M., editor. Proceedings of the Timber Management Resource Planning and Inventory Workshop, 1985. pp.89-97.

75 Joyce, P.M. and Breen, P., 1987. **The use of microcomputers in short-term planning.** In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:66-76.
"The main features of a decision support system are outlined and a forest management planning system is presented." (p.66)

76 Larkin, R.M., 1986. **Forest plan implementation: "A direct linkage or a dead linkage to program planning and budgeting."** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.222-233.

77 MacGregor, J.J., 1987. **The allocation of resources in land-use policies.** Scottish Forestry 41(1):12-21.

78 McQuillan, A.G., 1986. **The declining even flow effect - non sequitur of national forest planning.** Forest Science 32:960-972.

79 Merrill, G.O., 1983. **Lone Star State forestry: a forest resource plan.** Texas Forest Service, Publication 133. 35pp.

80 Merzenich, J.P., 1986. **Integrating information flows in forest planning: Disaggregation and interpretation of the FORPLAN, Version 1, Solution.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.250-255.

81 Mississippi Forestry Commission, 1983. **Pathways for forestry in Mississippi.** Mississippi Forestry Commission, Report no.1. 12pp.
This report summarizes the activities of the Pathways for Forestry in Mississippi Symposium held Apr. 5-6, 1983 in Jackson, Miss.

82 More, M.E., 1985. **Massachusetts forest resources - a working guide to action.** Massachusetts Department of Environmental Management, Division of Forests and Parks. 112pp.
A plan for Massachusetts forests.

83 Neher, P.A., 1985. **Resource allocation rules and long-range planning.** In: Scott, A., ed. Progress in natural resource economics. Oxford, Clarendon Press. pp.130-150.
"This paper attempts to clarify a general resource allocation problem as a guide to practical cost-benefit evaluations in specific instances." (p.130)

84 Ramm, C.W., Potter, K.L., and Rudolph, V.J., 1985. **Toward a**

national forest system in the Dominican Republic. Journal of Forestry 85(2):47-49.

85 Tanke, W.C., 1986. **Integrating information flows in forest planning: Linking FORPLAN to site specific analysis.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.173-181.
"This paper addresses some of the technical issues related to Forest Plan implementation." (p.173.)

86 Timko, W.E., 1986. **Integrated information flows in forest planning: Linking FORPLAN to RPA and the annual program.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.243-249.

87 Tomanic, S., 1987. **Impact of micros on planning systems and organization.** In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:37-50.

88 U.S. Congress, 1987. **Review of the nation's forest management and research needs and the 1985 Renewable Resources Planning Act program.** Hearings before the Subcommittee on Forests...Committee on Agriculture, House of Representatives, 99th Congress, 2nd session, Aug. 13 and Sept. 23, 1986. Serial no. 99-42. Washington, D.C., GPO. 813pp.

89 U.S. Forest Service, 1986. **A Recommended Renewable Resources Program: 1985-2030. 1985 update.** U.S. Forest Service, FS-400. 35pp.+ appendices.
"The RPA Program recommends a course of action through 2030 for the management and administration of the National Forest System, for Forest Service Research, and for assistance and leadership on private and state forest lands through State and Private Forestry programs." (p.1)

90 U.S. Forest Service, Southern Region, 1984. **Regional guide for the Southern Region.** U.S. Forest Service, Southern Region. Various pagings.
Prepared in compliance with RPA and NFMA. Accompanied by a Final Environmental Impact Statement.

91 Unkel, W.C., 1985. **Natural diversity and national forest planning.** Natural Areas Journal 5(4)8-13.

92 Wengert, R.H., 1986. **Implementation of the forest plan on the Daniel Boone National Forest.** In: Delfs, M., editor. Proceedings of the Timber Management Resource Planning and Inventory Workshop, 1985. pp.98-102.

93 Whaley, R.S., 1986. **Focus on the future.** U.S. Forest Service. 28pp.
A discussion of how the Forest Service needs to approach change and how Forest Service employees can anticipate and reflect changes appropriately in Forest Service plans, policies, and programs.

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173 Weber, F.R. and Stoney, C., 1986. **Reforestation in arid lands.** Arlington, VA, Volunteers in Technical Assistance. 335pp.
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176 Forster, R.B., 1985. **The role of economic analysis in forest sector decisions.** Quebec Ministere de l' Energie et des Ressources, Direction de la Recherche et de la Planification. 97pp.
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177 Hultkrantz, L., 1986. **Stagnation or development in the forest sector - a model of the forest sector of the northern part of Sweden and applications to forest policy and industrial policy problems.** In: Lohmander, P., ed. Research on economic planning in natural resource sectors. 2pp.
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180 Lee, T., Lekawski, E., and Nilsson, S., 1984. **Forest sector model user's guide.** University of British Columbia, Forest Economics and Policy Analysis Project. 259 pp.

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183 Clark, T.W., 1986. **Case studies in wildlife policy education.** Renewable Resources Journal 4(4):11-17.
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187 Kennedy, J.J. and Mincolla, J.A., 1986. **Women and men natural resource managers in early stages of their professional Forest Service careers.** Women in Forestry 8(1):23-28.

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192 Robertson, A., 1986. **Teleforestry: Utilizing television.** Forestry Chronicle 62:542-545.
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194 Ross, R.D. and Straka, T.J., 1986. **Field instructions Quarter-century trends.** Journal of Forestry 84(7):16-17.
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195 Schmithusen, F., 1986. **[Conservation and cultivation of forests - a task for policy and society.]** Zurich, Institut fur Wald-und Holzforschung, Fachbereich Forstokonomie und Forstpolitik. 32pp.
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201 Wellman, J.D., 1987. **Images of a profession.** Journal of Forestry 85(3):18-19.

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203 Witt, P.A., 1987. **Women in recreation management: A man's perspective on understanding and change.** Parks & Recreation 22(3):42-44,102.

204 Wood, D.M., 1986. **The forestry consultant. Part I - Who is the forestry consultant?** Montana State University, Cooperative Extension Service, Montana Extension Forestry Digest 5(4):7-9.

205 Wood, D.M., 1986. **The forestry consultant. Part III - Hiring the good consultant.** Montana State University, Cooperative Extension Service, Montana Extension Forestry Digest 5(6):10-12.

RESEARCH EVALUATION AND METHODOLOGY

206 Bengston, D.N. and Gregersen, H.M., 1986. **Forestry research and income redistribution.** In: Burns, D.P., comp. Evaluation and planning of forestry research. pp.117-122.

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207 Buckman, R.E. and Wahlgren, H.G., 1986. **Publicly supported forestry research: An overview of review mechanisms.** In: Burns, D.P., comp. Evaluation and planning of forestry research. pp.101-102.

208 Bullard, S.H., 1986. **Potential reasons for publicly funded forestry research as reflected in the U.S.A. experience.** Forest Ecology and Management 17:53-59.

"This paper examines some economic and socio-political reasons for public sponsorship of research and relates them to broad areas of forest products, forest ecology and management." (p.54.)

209 Burns, D.P., compiler, 1986. **Evaluation and planning of**

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212 Fege, A.S., 1986. **Economic and political factors influencing the development of the short rotation forestry technology.** In: Burns, D.P., comp. Evaluation and planning of forestry research. pp.123-135.

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228 Cubbage, F. and Hodges, D., 1987. **Availability of technical assistance in the South.** Forest Farmer 46(4):14-17.
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331 Commission on Ohioans Outdoors, 1986. **Outdoor recreation in Ohio: Status & direction.** A report to the Governor from the Commission on Ohioans Outdoors. 50pp.
A 23 page Executive Summary is also available.

332 Converse, R.S. and Machlis, G.E., 1986. **Energy and outdoor recreation: A review and assessment of the literature.** Leisure Sciences 8:391-416.
"Students of leisure and outdoor recreation need to treat energy as a significant variable...." (p.411)

333 Coyle, K.J. and Dreher, R.G., 1987. **Protecting wild and scenic rivers on the national forests: an overlooked opportunity in forest planning.** Forest Watch 7(8):7-12.

334 Edington, J.M. and Edington, M.A., 1986. **Ecology, recreation and tourism.** New York, Cambrige University Press. 200pp.
Ecological and environmental aspects of tourism.

335 Fesenmaier, D.R. and Lieber, S.R., 1987. **Outdoor recreation expenditures and the effects of spatial structure.** Leisure Sciences 9:27-40.
"The purpose of this paper is to investigate the way in which the spatial structure of recreational opportunities influences the level of household expenditures for recreation activity." (p.28)

336 Gleason, C., 1986. **Forestry and tourism.** In: Levack, H., ed. Forestry handbook. pp.28-29.

337 Gratton, C. and Taylor, P., 1985. **Sport and recreation: An economic analysis.** London, New York, Spon. 261pp.
Examines demand, as well as pricing, investment and budgeting. Considers the role of government.

338 Ham, S.H., 1983. **Cognitive psychology and interpretation: Synthesis and application.** Journal of Interpretation 8(1):11-27.
"The results of several experiments from cognitive psychology are discussed in relation to interpretation for noncaptive audiences." (p.11)

339 Kottke, M.W., 1986. **Comparison of economic impacts of tourism on rural and urban towns in New London County.** University of Connecticut, Storrs Agricultural Experiment Station, Research Report 80. 24pp.

New London County, Connecticut borders on Long Island Sound and attracts millions of tourists to its seashore recreation opportunities. This study considered the economic impact of tourism in an urban setting compared to that in a rural environment.(p.1)

340 Kristrom, B., 1986. **Consumer surplus and discrete choice: An illustration.** Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Arbetsrapport 55. 31pp.

This paper deals with "the relationship between consumer surplus and goods that are 'discrete'. The author's purpose is "to analyse a simple model of discrete choice in the context of a consumer choosing between different types of leisure activities." (p.3)

341 LaBar, R.J., 1987. **Conflict between recreation on public vs. private lands.** Pennsylvania Forests 77(1,494):15.

342 Leaper, E., 1987. **Rationing recreational river use: A question of equality and freedom of choice.** Western Wildlands 12(4):10-14.

343 Leitch, J.A. and Leistritz, F.L., 1984. **Techniques for assessing the secondary impacts of recreation and tourism.** North Dakota University, Department of Agricultural Economics, Staff Paper Series AE84006. 13pp.

The authors' objective is "to review the criteria of acceptable recreation and tourism impact assessment techniques and discuss selected techniques in light of those criteria." (p.1)

344 McClaskie, S.L., Napier, T.L., and Christensen, J.E., 1986. **Factors influencing outdoor recreation participation: A state study.** Journal of Leisure Research 18:190-205.

Reports on an Ohio study, the purpose of which was "to develop predictive models of outdoor recreation participation." (p.190)

345 More, T.A., 1983. **The nonusers of an urban forest interpretive center.** Journal of Interpretation 8(1):1-9.

"Users and nonusers of an interpretive museum in a 650-acre day-use recreation area were compared in terms of their social characteristics and motives for visiting the area." (p.1)

346 Perdue, R.R., 1987. **The influence of awareness on spatial behavior in recreational boating.** Leisure Sciences 9:15-25.

Assesses the influence of lake awareness on travel for recreational boating.

347 Perdue, R.R., 1986. **Traders and nontraders in recreational destination choice.** Journal of Leisure Research 18:12-25.

"The purpose of this study was to assess the application of the mass transportation traders concept to spatial choice research in recreational boating." (p.12)

348 Rea, P.S. and Warren, R., 1986. **Recreation management of water resources.** Columbus, Ohio, Publishing Horizons, Inc. 104pp.
Includes chapters on small lake management, large lake management, marinas, and beaches.

349 Twardzik, L.F., 1987. **Accreditation: A method for evaluating public park and recreation systems.** Parks & Recreation 22(3):60-64.

350 University of Wyoming, Dept. of Geography and Recreation, 1985. **1985 Wyoming State Comprehensive Outdoor Recreation Plan: Technical report.** Cheyenne, Wyoming Recreation Commission. Var. pag.

351 Walsh, R.G., 1986. **Recreation economic decisions: Comparing benefits and costs.** State College, PA, Venture Publishing, Inc. 637pp.
The three major sections of the book deal with: Consumer decision making, demand for recreation, and a comparison of benefits and costs of recreation projects and programs.

352 Watson, B., 1986. **Forests and recreation.** In: Levack, H., ed. Forestry handbook. pp.21-22.

353 Wicks, B.E. and Crompton, J.L., 1986. **Citizen and administrator perspectives of equity in the delivery of park services.** Leisure Sciences 8:341-365.
This paper addresses the issue of what constitutes fairness and equity in the allocation of park resources. A sample of the general public and a sample of park and recreation directors were surveyed.

354 Williams, D.R. and Knopf, R.C., 1985. **In search of the primitive-urban continuum: the dimensional structure of outdoor recreation settings.** Environment and Behavior 17:351-370.
"A multidimensional scaling analysis of 42 rivers was conducted using reported recreation experiences as proximity measures." (p.351)

355 Wyoming Recreation Commission, 1985. **1985 Wyoming State Comprehensive Outdoor Recreation Plan: Executive summary.** Cheyenne, Wyoming Recreation Commission, Planning Section. 42pp.

WILDERNESS MANAGEMENT-NATURE CONSERVATION-NATIONAL PARKS

356 Beardmore, R.M., 1985. **Atlantic Canada's natural heritage areas.** Ottawa, Ministry of Supply and Services. 94pp. + map.
List and description of Canada's national parks, natural areas, national wildlife areas, federal migratory bird sanctuaries, provincial parks, ecological reserves, and game sanctuaries.

357 Burnett, G.W. and Butler, L.M., 1987. **National parks in the third world and associated national characteristics.** Leisure Sciences 9:41-51.
This paper explores 2 questions: "First, what combination of conditions separate third world nations having elected to establish national parks from those not establishing national parks? Second, how distinct are these two groups?" (p.42)

358 Burns, R.M., 1985. **Philosophy and approach to special management of natural areas on USDA Forest Service land.** In: Collins, E.I., ed. Wyoming Natural Area Needs Workshop, 1984: Proceedings. pp.11-14.

359 Collins, E.I., editor, 1985. **Wyoming Natural Area Needs Workshop, 1984: Proceedings.** Arlington, VA, Nature Conservancy. 166pp.
Selected papers are indexed in this issue.

360 Corbett, M.R., editor, 1983. **Greenline parks: Land conservation trends for the eighties and beyond.** Washington, D.C., National Parks & Conservation Association. 142pp.

361 Durenberger, D., 1987. **Investing in parks.** National Parks 61(1-2):10-11.
The author advocates increasing entrance fees and dedicating those fees to natural and cultural resource management in the parks.

362 Eagles, P.F.J., 1985. **Impacts of budget restraint in United States' national parks and monuments.** Waterloo, Ontario, University of Waterloo, Dept. of Recreation and Leisure Studies, Occasional Paper no.5. 17 pp.
"This study was conducted over a 6 week period in 15 United States National Parks and monuments. It revealed that these facilities have had to cope with a considerable level of federal government fiscal restraint in the last 5 years." (p.16)

363 Erickson, K.A., 1986. **Art, literature, and the national parks: Ceremonial landscapes of the American West.** In: University of Colorado, Natural Resources Law Center. External development affecting the national parks. [9]pp.
Reprinted from Landscape 22(1):39-47, 1977.

364 Helliwell, D.R., 1985. **Planning for nature conservation.** Chichester, West Sussex, England, Packard Publ. Ltd. 115p.

365 Heymanowski, K., 1986. **[Legal and organizational conditions of forests embraced with nature protection in Poland (against the background of a historical sketch).]** Sylwan 130(6):1-12.
In Polish with English summary.

366 Johnson, R.R. and Carothers, S.W., 1987. **External threats: the dilemma of resource management on the Colorado River in Grand Canyon National Park, USA.** Environmental Management 11:99-107.
National Park Service attempts to maintain Grand Canyon's natural environment have been thwarted by activities outside the park. One of the external threats is Glen Canyon Dam.

367 Keiter, R.B. and Hubert, W.A., 1987. **Legal considerations in challenging external threats to Glacier National Park, Montana, USA.** Environmental Management 11:121-126.
This article identifies and evaluates the laws that Glacier Park officials might rely upon to protect the Park against external threats.

368 Keiter, R.B., 1986. **Jurisdictional and institutional issues: Public lands.** In: University of Colorado, Natural Resources Law Center. External development affecting the national parks. 11pp.
"Despite the Organic Act's preservation mandate, the national parks are not securely protected against threatening activities occurring on adjacent lands." (p.1)

369 Magraw, D.B., 1986. **International law and external threats to national parks.** In: University of Colorado, Natural Resources Law Center. External development affecting the national parks. 39pp.

370 Mantell, M., 1986. **The National Park System and development on private lands: Opportunities and tools to protect park resources.** In: University of Colorado, Natural Resources Law Center. External development affecting the national parks. 31pp.
"Many pressures on National Park System lands originate on private property under state and local jurisdiction." (p.1) The Park Service's ability to do anything about impacts from these lands varies from case to case.

371 Marion, J.L. and Sober, T., 1987. **Environmental impact management in the Boundary Waters Canoe Area Wilderness.** Northern Journal of Applied Forestry 4:7-10.

372 Mohai, P. and Verbyla, D.L., 1987. **The RARE II wilderness decisions.** Journal of Forestry 85(1):17-23.
A critique of RARE II, centering on the decision making process involved in wilderness selection.

373 Runte, A., 1986. **The national park idea: Historical misconceptions and ecological realities.** In: University of Colorado, Natural Resources Law Center. External development affecting the national parks. 16pp.

374 Scott, D.W., 1984. **The National Wilderness Preservation System - its place in natural area protection.** Natural Areas Journal 4(4)6-19.

375 Stankey, G.H., 1984. **Wilderness preservation activity at the state level: A national review.** Natural Areas Journal 4(4)20-28.

376 Stottlemyer, R., 1987. **External threats to ecosystems of U.S. national parks.** Environmental Management 11:87-89.
"Activities beyond national park boundaries are now the principal source of threats to park natural resource integrity." Among these threats are air and water pollution.

377 Thrower, S.L., 1984. **Hong Kong country parks.** Hong Kong, Government Information Services. 216pp.
"Introductory chapters describe the history of the National Parks philosophy, the background to the Country Parks in Hong Kong and the need for their management and conservation for use by the people. Detailed descriptions of the Parks and their topography and ecology are given...." (p.4)

378 Tixier, J.S., 1986. **The Greater Yellowstone: An introduction to an area and its issues.** Western Wildlands 12(3):2-6.
The Yellowstone area includes Yellowstone and Grand Teton National Parks and other federal lands.

379 Trumbly, J.M. and Gray, K.L., 1984. **The California Wilderness Preservation System.** Natural Areas Journal 4(4)29-35.

380 U.S. General Accounting Office, 1984. **Private mineral rights complicate the management of eastern wilderness areas.** U.S. General Accounting Office. 48pp.
The GAO recommends that the Forest Service "analyze the potential conflicts and costs associated with private mineral rights in potential wilderness areas...."

381 University of Colorado, Natural Resources Law Center, 1986. **External development affecting the national parks: Preserving "the best idea we ever had".** University of Colorado, School of Law, Natural Resources Law Center. Var. pag.
Papers from a conference held in Estes Park, Colorado, Sept. 14-16, 1986. Selected papers are indexed in this issue.

382 Vale, T.R., editor, 1986. **Progress against growth: Daniel B. Luten on the American landscape.** New York, Guilford. 366pp.
A compilation of Luten's most important works - letters, lectures, articles, essays, and unprinted talks - as he helped to define and direct the American conservation movement.

383 Vaske, J.J., Shelby, B., Graefe, A.R., and Heberlein, T.A., 1986. **Backcountry encounter norms: Theory, method and empirical evidence.** Journal of Leisure Research 18:137-153.
"Three normative characteristics - range of tolerable contacts, norm intensity and norm crystallization - are

identified and measured quantitatively using data from the Brule River to empirically illustrate the application of the model to a recreation setting." (p.137)

RANGE MANAGEMENT

384 Fowler, J.M., 1985. **Rangeland economics in the arid west.** New Mexico State University, Dept. of Agricultural Economics and Agricultural Business, Departmental Staff Report no.40. 39pp.

385 Hamilton, W.T. et al., 1986. **Incorporating precipitation-induced variation in annual forage production into economic analyses of range improvement practices.** Texas Agricultural Experiment Station B-1519. [16]pp.
Co-authors are: J.R. Conner, J.W. Stuth, G.L. McBryde, and A.J. Vega.

386 Hunter, H.E., 1987. **Non-industrial private forest lands. Part V - Forested range management and economics or beware of the forester in cowboy boots.** Montana State University, Cooperative Extension Service, Montana Extension Forestry Digest 6(1):6-11,14-16.

387 Merkle, D., Carter, R., and Artz, J.L., editors, 1984. **Southeastern Regional Conference Grazing Lands and People, Atlanta, Georgia, 1984: Proceedings.** 126pp.
Sponsored by the Extension Service (USDA) and the National Cattlemen's Association in cooperation with 27 public and private organizations. The proceedings were printed at the University of Georgia. No publishing information given. Includes sections on "economic factors influencing grazing lands utilization" and "social and political factors influencing development of southeastern grazing lands."

388 Nelson, R.H., 1985. **NRDC v. Morton: The role of judicial policy making in public rangeland management.** Policy Studies Journal 14:255-264.
Paper presented at Federal Lands and Public Policy Symposium.

389 Passof, P.C., Clawson, W.J., and Fitzhugh, E.L., 1985. **Preliminary guidelines for managing California's hardwood rangelands.** University of California. Cooperative Extension Publication 21413. 92pp.
Provides ideas on managing hardwood range from a multiple resource standpoint.

390 U.S. Agricultural Research Service, 1986. **Recent publications of range research (1984).** U.S. Dept. of Agriculture, Agricultural Research Service. 28pp.
ARS and joint ARS-Cooperative publications of range research released in 1984 are listed by locations of work.

391 U.S. Agricultural Research Service, 1986. **Recent publications of range research (1985).** U.S. Department of Agriculture, Agricultural Research Service. 28pp.
ARS and joint ARS-Cooperative publications of range research released in 1985 are listed by locations of work.

392 Vantassell, L.W., and Conner, J.R., 1986. **An economic analysis of brush control practices and grazing systems in the rolling plains of Texas.** Texas Agricultural Experiment Station MP-1619. 13pp.

393 Wagstaff, F.J., comp., 1986. **Range and ranch economics bibliography: 1968-85.** U.S. Forest Service, General Technical Report INT-216. 30pp.

394 Wald, J.H. and Schwartz, L., 1987. **Thawing the freeze on grazing fees.** Forest Watch 7(8):20-25.
"Lawsuit seeks to force the Forest Service and the BLM to charge fees which return the fair market value of federal grazing." (p.20)

URBAN FORESTRY

395 Andersen, J.W. and Granger, W.B., 1986. **Metropolitan Toronto's urban forests: History and future.** Arboricultural Journal 10:309-318.

396 Coder, K.D. and Page, B.E., 1987. **Microcomputer software for use in urban tree evaluation.** U.S. Forest Service, Southern Region, Forestry Report R8-FR6. 2pp.

397 Coelho-Hudson, C., 1987. **Promoting urban forestry through the urban planning process.** Journal of Arboriculture 13:86-88.

398 Hathout, S. and Simpson, K., 1986. **Boulevard tree studies from aerial photographs of Winnipeg city, Manitoba, Canada.** Journal of Environmental Management 23:203-214.
A study based on the hypothesis that tree density variation may be related to social phenomena.

399 Tate, R.L., 1987. **A guide to contracting for municipal tree maintenance services.** Journal of Arboriculture 13:18-20.

400 Valentine, J., 1986. **Forestry in the community.** In: Levack, H., ed. Forestry handbook. pp.26-27.

401 Willeke, D.C., 1987. **A SWAT team for urban forestry.** Journal of Arboriculture 13:1-9.
The author suggests using a network of influential citizens as a support group to assist the municipal arborist. The group would include lawyers, public relations people, corporate leaders, university tree experts, media people, a

city engineer, wealthy citizens, and legislators or city council members.

WATERSHED MANAGEMENT

402 Hamilton, L.S., 1986. **Towards clarifying the appropriate mandate in forestry for watershed rehabilitation and management.** In: Strategies, approaches, and systems in integrated watershed management. Rome, Food and Agriculture Organization of the United Nations, FAO Conservation Guide 14:33-51.

Discusses benefits for maintaining or for planting forests or trees on watershed lands.

WILDLIFE AND FISH

403 Abel, N. and Blaikie, P., 1986. **Elephants, people, parks and development: the case of the Luangwa Valley, Zambia.** Environmental Management 10:735-751.

"This article is about the role of national parks in the development of the Luangwa Valley in Zambia. It has two purposes: The first is to examine the conventional approach to wildlife conservation in the Luangwa. The second... is to develop a methodology of analyzing the use of wildlife resources for rural development." (p.735)

404 Allen, F[illegible]., 1986. **Non-industrial private forest lands. Part IV - Wildlife management considerations for the small, private forest landowner in western Montana.** Montana State University, Cooperative Extension Service, Montana Extension Forestry Digest 5(6):4-7.

405 Brabander, J.J., Masters, R.E., and Short, R.M., 1985. **Bottomland hardwoods of eastern Oklahoma: A special study of their status, trends, and values.** Oklahoma Dept. of Wildlife Conservation; U.S. Fish and Wildlife Service. 143+pp.

Includes discussion of ecological values, fish and wildlife values, and economic values, not only of products derived but also economic value of recreation.

406 Doerr, J.G. and Sigman, M.J., 1986. **A review of measures implemented by the U.S. Forest Service to protect fish and wildlife resources of Southeast Alaska.** Alaska Department of Fish and Game, Division of Habitat, Technical Report 86-1. 140pp + appendix.

This report evaluates environmental documents concerning timber sales and management area analyses completed from 1980 through 1984 on the Tongass National Forest.

407 Egglishaw, H., Gardiner, R. and Foster, J., 1986. **Salmon catch decline and forestry in Scotland.** Scottish Geographical Magazine 102:57-61.

"Data are given indicating that the recent decline in the number of adult Atlantic salmon... can be related to the amount of forest in upland areas where nursery streams occur." (p.57)

408 Kristrom, B., 1987. **The value of a hunting permit under rationing: An application to moose hunting in Sweden.** Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Arbetsrapport 58. 24pp.

"This paper is a report from an ongoing project titled 'the economic importance of the moose'. One purpose of this project is to try to shed some light on the value of the moose, where value is to be interpreted in a broad sense including recreational values from hunt etc." (p.2)

409 Mattson, L. and Kristrom, B., 1987. **[The value of moose hunting...]** Sveriges Lantbruksuniversitet, Institutionen for Skogsekonomi, Arbetsrapport no. 60. 63pp + app.

In Swedish with English summary. "In this study a questionaire technique is used to create a hypothetical market for moose hunting." (p.59)

410 Prescott-Allen, C. and Prescott-Allen, R., 1986. **The first resource: Wild species in the North American economy.** New Haven, Yale University Press. 529pp.

Covers wild plant and animal resources and gives a systematic analysis of their economic importance to North America. Includes a chaper on "Recreational fishing, hunting, and nonconsumptive wildlife use".

411 Shaw, W.W. and Mangun, W.R., 1984. **Nonconsumptive use of wildlife in the United States.** U.S. Fish and Wildlife Service, Resource Publication no. 154. 20pp.

Sections of the 1980 National Survey of Fishing, Hunting and Wildlife-Associated Recreation that dealt with nonconsumptive uses of wildlife are analyzed.

412 Shelton, R., 1985. **Fee hunting systems and important factors in wildlife commercialization on private lands.** In: Symposium on Southeastern Hardwoods, 3rd, 1985. Proceedings. U.S. Forest Service, Southern Region. pp.14-22.

The three basic types of fee hunting systems in the South are discussed. They are: permit, leasing, and commercial membership enterprises.

WOOD PRODUCTION

413 Armitage, F.B., 1985. **Irrigated forestry in arid and semi-arid lands: A synthesis.** Ottawa, International Development Research Centre. 160pp.

This publication "reviews the potential for irrigated forest plantations and provides a checklist of economic, sociological, and technical criteria needed to guide decisions as to the feasibility of such developments." (p.2)

414 Brodie, J.D., 1986. **Economic analysis of vegetation management.** In: Forest Vegetation Management Conference, 7th, 1985. Proceedings. pp.44-62.

415 Dolan, A.G. and Russel, B.P., 1986. **Economic survey of private forestry: England and Wales establishment costs, 33rd annual report for the forest year 1984.** Oxford, UK, Oxford Forestry Institute, Economics Section. 31pp.

416 Ek, A.R., Burk, T.E., Shifley, S.R., and Hahn, J.T., 1986. **Growth and yield projections for northern hardwoods.** In: Mroz, G.D. and Reed, D.D., comp. Proceedings: A Conference on the Northern Hardwood Resource. pp.291-307.

417 Franklin, E.C., 1987. **Economics of forest management options: influence on wood properties.** Tappi Journal 70(1):85-88.

"Maximum returns to the grower can be expected by establishing plantations of loblolly pine at moderate to low initial stocking densities and by moderate to heavy thinning as early as commercially feasible." (p.85)

418 Hair, D. et al., 1986. **The South's fourth forest: Alternatives for the future. Review draft.** U.S. Forest Service. 365pp. + appendices.

The study deals with: (1) the economic importance of the forests in the South; (2) past changes in the forest resource and forest industries; (3) projections of changes in the timber resource; (4) impacts of the futures analyzed on the resource, etc; and (5) economic opportunities for increasing timber supplies.

419 Heaps, T., 1986. **Cost-benefit analysis of growing coastal Douglas-fir in British Columbia.** In: Lohmander, P., ed. Research on economic planning in natural resource sectors. 25pp.

420 Hinson, R.A., 1987. **Estimating cost of producing woody ornamental plants in containers.** Louisiana Agricultural Experiment Station D.A.E. Research Report no.673. 29pp.

The Azalea was used as the representative plant.

421 Hosking, M.R., 1985. **To plant or not to plant: Factors influencing plantation development.** In: TeAho, T. and Hosking, M.R., comp. Workshop on Nursery and Plantation Practices in the ASEAN. pp.199-213.

"The need to afforest must be well-based in the forest

policy of a country, recognising the economic, social and environmental constraints and opportunities that are presented by plantations." (p.199)

422 Klemperer, W.D. and Arthaud, G.J., 1987. **Economics of high and low thinning of loblolly pine.** In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:103-110.
Reviews results of research projects which examined computer-based approaches to seeking economically optimal thinning regimes in even-aged loblolly pine. Highlights a recent study applying dynamic programming for economic comparisons of thinning from above and below in loblolly pine.

423 Lyon, G.W., 1986. **Economics of all-aged northern hardwood stands.** In: Mroz, G.D. and Reed, D.D., comp. Proceedings: A Conference on the Northern Hardwood Resource. pp.308-320.
The author's intent "is to emphasize the impacts that price - the real price of some of the northern hardwood species, and the price differentials between grades - have on harvesting and mangement practices in all-aged stands." (p.308)

424 Oliver, C.D., 1986. **Silviculture: The next 30 years, the past 30 years. Part I: Overview.** Journal of Forestry 84(4):32-42.
Discusses trends in forest use, available labor, and investments in silvicultural practices.

425 Pearse, P.H., Lang, A.J., and Todd, K.L., 1986. **Economic priorities for reforesting unstocked forest land in British Columbia.** Forestry Chronicle 62:522-528.
"The cost of rehabilitating the accumulated backlog of unsatisfactorily stocked forest lands in British Columbia is calculated for each site class and type in each region." (p.522)

426 Pearse, P.H., Lang, A.J., and Todd, K.L., 1986. **The backlog of unstocked forest land in British Columbia and the impact of reforestation programs.** Forestry Chronicle 62:514-521.
"The current reforestation effort in British Columbia is examined with special reference to the accumulated backlog of 'not satisfactorily restocked' (NSR) forest land in the province." (p.514)

427 Perhutani, P., 1985. **Environmental aspects and problems of plantation forest in Java.** In: TeAho, T. and Hosking, M.R., comp. Workshop on Nursery and Plantation Practices in the ASEAN. pp.214-219.
Discusses forest development in the context of National Economic Development and the need to balance private economic objectives with those of the nation as a whole.

428 Smyth, J.H. and Brownwright, A.J., 1986. **Forest tree production centres in Canada - 1984.** Great Lakes Forestry Centre, Information Report O-X-378. 53pp. + app.
Provides a listing of provincial, industrial, and private commercial production centers producing bare-root and

containerized forest tree seedlings. For individual centers, provides an estimate of the number of trees shipped, and planned production levels for 1985-1988.

429 TeAho, T. and Hosking, M.R., comp., 1985. **Workshop on Nursery and Plantation Practices in the ASEAN, Jakarta, 1983: [Proceedings].** Wellington, New Zealand Forest Service. 372pp.
Selected papers are indexed in this issue.

430 Teskey, S.B., 1986. **Economics of site evaluation: Northeastern Region economic prime sites model.** In: Site classification in relation to forest management. Great Lakes Forestry Centre, COJFRC Symposium Proceedings O-P-14:113-117.
The Northeastern Region, Ontario, is developing a computer model that uses treatment cost, productivity, monetary yield, distance and demand factors for soil units delineated by its Forest Land Productivity Survey to identify economically prime sites.

431 U.S. Forest Service, 1986. **National Forest System, reforestation and timber stand improvement report for fiscal year 1985.** U.S. Forest Service, Washington Office. Unpaged.

432 Valsta, L., 1986. **Methods for determining optimal birch mixture in coniferous stands.** In: Lohmander, P., ed. Research on economic planning in natural resource sectors. 24pp.
"Two optimization techniques are compared in terms of applicability to various types of growth models, ability to incorporate price and cost information, and computational questions." (p.1.6)

TIMBER HARVESTING

433 Barger, R.L., 1986. **Non-industrial private forest lands. Part III - Harvesting and utilization considerations for forest landowners.** Montana State University, Cooperative Extension Service, Montana Extension Forestry Digest 5(5):8-13.

434 Blinn, C.R. and Sinclair, S.A., 1986. **Profitability of various timber harvesting systems as affected by product sorting and timber stand parameters.** Northern Journal of Applied Forestry 3:167-172.
"The objectives of this study were to: (1) examine the profitability of multi-product harvesting for five timber harvesting systems operating in various timber stands under three product-sorting intensities: (2) examine the impact of product sorting on harvesting system profitability; and (3) examine the impact of various stand parameters on system profitability." (p.167)

435 Blinn, C.R., 1983. **The economics of integrating the harvesting and marketing of hardwood timber to achieve increased**

profitability. Ph.D. thesis, Virginia Polytechnic Institute and State University: Ann Arbor, MI, University Microfilms International. 209pp.

"A study was undertaken to examine the economics of product sorting in hardwood timber stands." (abstract)

436 Brock, S.M., Jones, K.D., and Miller, G.W., 1986. **Felling and skidding costs associated with thinning a commercial Appalachian hardwood stand in northern West Virginia.** Northern Journal of Applied Forestry 3:159-163.

"This paper compares felling and skidding costs associated with three thinning treatments applied in a commercial Appalachian hardwood stand." (p.159)

437 Connelly, W.J., 1986. **Integrating harvest schedules with land management options.** In: Bailey, R.G., coord. Lessons from using FORPLAN. pp.97-109.

Subtitle: "A modest proposal to reduce the size of allocative FORPLAN models while expanding the use of computer assisted harvest scheduling."

438 Ericson, O., 1987. **A modern approach to planning of logging operations.** In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:54-65.

This paper describes a computerized forest planning system known as SKOGPLAN 84.

439 Galbraith, J.E. and Liley, W.B., 1986. **The structure of New Zealand logging operations.** In: Levack, H., ed. Forestry handbook. pp.88-90.

440 Hoffman, B.F., Jr., 1987. **Precommercial thinning.** Journal of Forestry 85(3):16-18.

"It is less costly to cut and pile unmerchantable trees before thinning merchantable ones." (p.16)

441 Irland, L.C., 1986. **Public role in biomass harvesting: Four challenges.** In: Symposium on the Productivity of Northern Forests Following Biomass Harvesting. Proceedings. U.S. Forest Service, General Technical Report NE-GTR-115:91-94.

442 Jones, D.B., 1986. **Harvest scheduling of northern hardwoods on the national forests.** In: Mroz, G.D. and Reed, D.D., comp. Proceedings: A Conference on the Northern Hardwood Resource. pp.321-333.

"Harvest scheduling of northern hardwoods on the National Forests of the Eastern Region is accomplished using the FORest PLANing model (FORPLAN)." (p.321)

443 Kitagawa, K., 1987. **Research methodologies that can or have successfully used micros in forest engineering.** In: Proceedings S:3:04. Maine Agricultural Experiment Station, Miscellaneous Report 317:5-16.

444 Klemperer, W.D., Thurmes, J.F., and Oderwald, R.G., 1987.

Simulating economically optimal timber-management regimes. Journal of Forestry 85(3):20-23.

"Computer-based stand simulation can estimate effects of hardwood competition, genetic improvement, and fertilization on benchmark economically optimal harvest regimes in old-field loblolly pine plantations." (p.20)

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